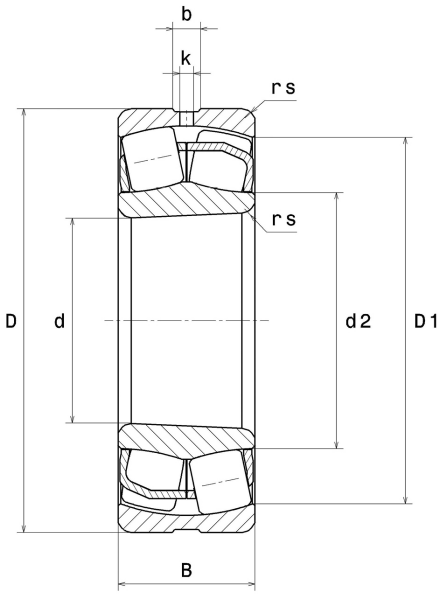
PDF technical sheet
23040EAKW33C3

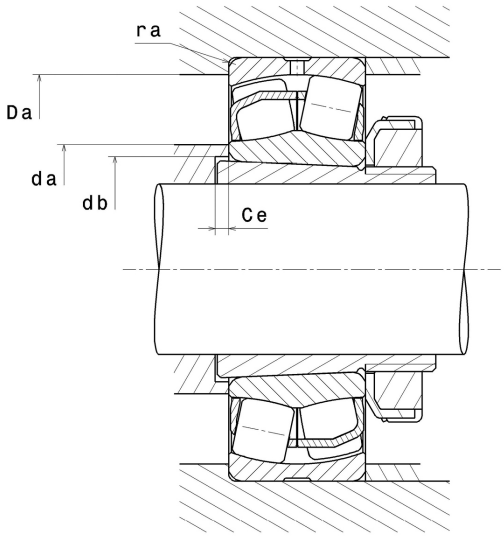
Double row spherical roller bearings

Spherical roller bearing, pressed steel cage, groove and lubrication holes on outer ring, tapered bore 1:12

Product definition	
d	7.8740 "
D	12.2047 "
B	3.2283 "
d2	8.9488 "
D1	11.1142 "
rs min	0.0827 "
Number of lubrication holes	3
b	0.5622 "
k	0.2756 "
Associated sleeve reference	H3040
e	0.23
Y1	2.95
Y2	4.4
Y0	2.89
Radial clearance class	C3
Mass	77.25 oz
Brand	SNR



Product performance	
Dynamic load, C	1,310 kN
Static load, C0	1,790 kN
Fatigue limit load, Cu	136 kN
Nref	1,800 RPM
Nlim	2,300 RPM
Min operating temperature, Tmin	−40 °C
Max operating temperature, Tmax	392 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	8.37 Hz
Characteristic outer ring frequency, BPF0	10.60 Hz
Characteristic inner ring frequency, BPFI	13.40 Hz



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Code APE 2815 Z – Code NACE 28.15

Abutment dimensions	
da min	8.2756 "
db min	8.2677 "
Ce min	0.3543 "
Da max	11.8031 "
ra max	0.0787 "

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

Fa / Fr ≤ e		Fa / Fr > e	
X	Y	X	Y
1	Y1	0.67	Y2

Equivalent static radial load

$P_0 = X_0.Fr + Y_0.Fa$

X_0	Y_0
1	Y0

The values for e, Y1, Y2 and Y0 are shown in the above table .